

1    **What is claimed is:**

2    1.    A wrench comprising:

3               a handle including an end having an engaging portion;

4               a head including a pivotal portion pivotably connected to the end of  
5               the handle, the pivotal portion of the head including a fore lug and a rear lug  
6               that are located with reference to a ratcheting direction of the handle, an  
7               opening being defined between the fore lug and the rear lug, the engaging  
8               portion of the handle being received in the opening and pivotable about a  
9               pivotal axis, each of the fore lug and the rear lug having an arcuate outer  
10              surface section, a plurality of teeth being defined in the arcuate outer surface  
11              section of the fore lug, a distance from an addendum circle of the teeth of  
12              the fore lug to the pivotal axis being smaller than that from the arcuate outer  
13              surface section of the rear lug to the pivotal axis; and

14              a retaining mechanism for releasably engaging with the teeth of the  
15              fore lug, allowing the head to be pivotally moved to a desired position  
16              relative to the handle and retaining the head in the desired position.

17    2.    The wrench as claimed in claim 1, with the engaging portion of the handle  
18              including a pin hole, with the fore lug and the rear lug having aligned pin  
19              holes, and with a pin extending through the pin holes of the fore lug and the  
20              rear lug and through the pin hole of the engaging portion of the handle.

21    3.    The wrench as claimed in claim 1, with the end of the handle including a  
22              receptacle extending in a direction perpendicular to a longitudinal direction  
23              of the handle, an axial hole being defined in the end of the handle and having  
24              a first end communicated with the receptacle and a second end facing the  
25              teeth of the fore lug, the retaining mechanism including an elastic element  
26              and a push member mounted in the receptacle, the retaining mechanism

1 further having a catch slidably mounted in the axial hole, the catch being  
2 urged by the push member, under an action of the elastic element, to be  
3 engaged with the teeth of the fore lug.

4 4. The wrench as claimed in claim 3, with the push member including a  
5 recessed portion having a first face and a second face that is located in a level  
6 different than that of the first face.

7 5. The wrench as claimed in claim 1, with the head including a drive member  
8 mounted therein for engaging and driving a fastener, further including a mark  
9 for indicating a ratcheting direction of the drive member.

10 6. The wrench as claimed in claim 3, wherein the receptacle opens in one of two  
11 lateral sides of the handle.

12 7. The wrench as claimed in claim 3, wherein the receptacle opens in a top of  
13 the handle.

14 8. The wrench as claimed in claim 2, wherein a distance from an addendum  
15 circle of the teeth of the fore lug to a periphery delimiting the pin hole of the  
16 fore lug is smaller than that from the arcuate outer surface section of the rear  
17 lug to a periphery delimiting the pin hole of the rear lug.

18 9. A head for a handle of a wrench, the head including a pivotal portion adapted  
19 to be pivotally connected to an engaging portion on an end of a handle, the  
20 pivotal portion of the head including a fore lug and a rear lug that are located  
21 with reference to a ratcheting direction of the handle, an opening being  
22 defined between the front lug and the rear lug, the engaging portion of the  
23 handle being adapted to be received in the opening and pivotable about a  
24 pivotal axis, each of the fore lug and the rear lug having an arcuate outer  
25 surface section, a plurality of teeth being defined in the arcuate outer surface  
26 section of the fore lug, the teeth being adapted to be releasably engaged with

1 a retaining mechanism mounted in the handle, allowing the head to be  
2 pivotally moved to a desired position relative to the handle and retaining the  
3 head in the desired position, a distance from an addendum circle of the teeth  
4 of the fore lug to a pivotal axis being smaller than that from the arcuate outer  
5 surface section of the rear lug to the pivotal axis.

6 10. The wrench as claimed in claim 9, with the fore lug and the rear lug having  
7 aligned pin holes, with a distance from a distance from an addendum circle of  
8 the teeth of the fore lug to a periphery delimiting the pin hole of the fore lug  
9 being smaller than that from the arcuate outer surface section of the rear lug  
10 to a periphery delimiting the pin hole of the rear lug.